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THIRD ANNUAL REPORT

OF THE

North Carolina Sanatorium for the Treatment of Tuberculosis

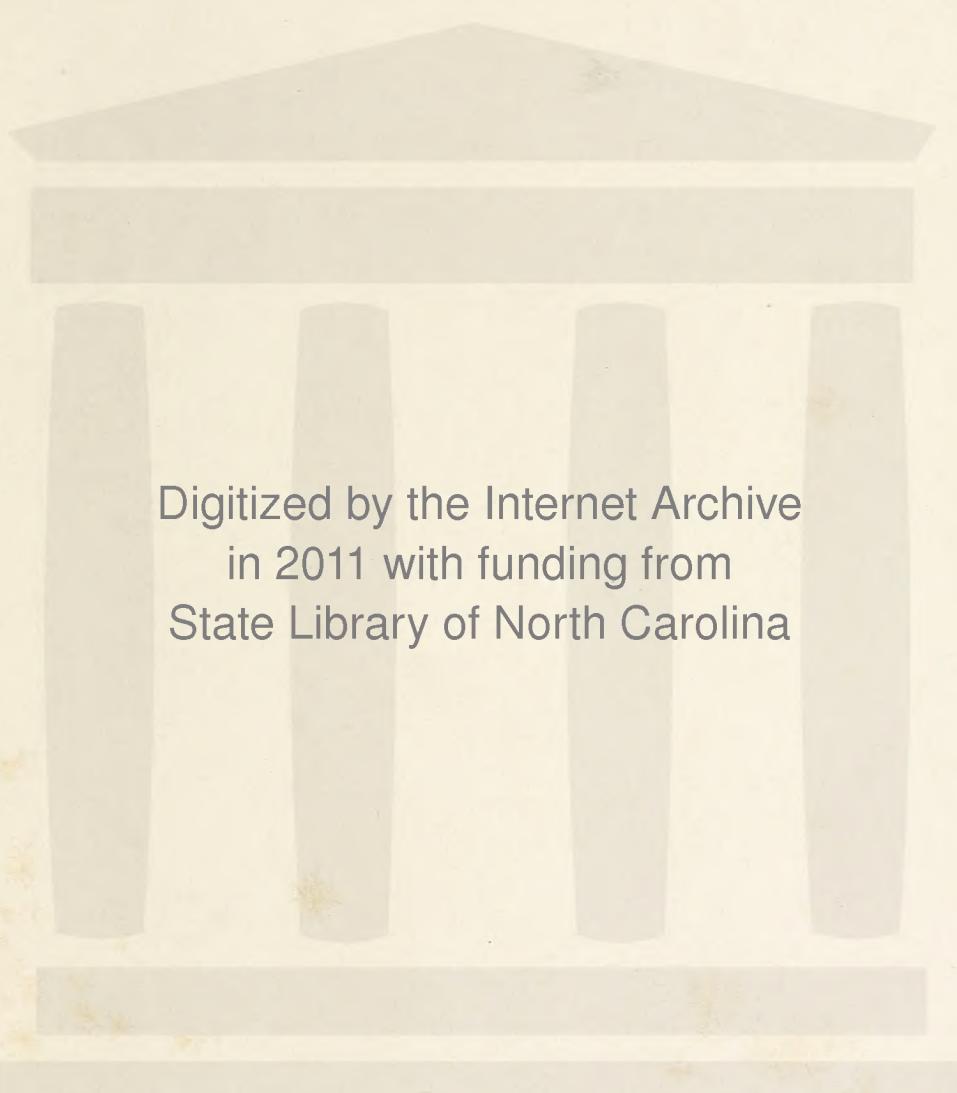
UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1916

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NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS... SANATORIUM, N.C. CHARLOTTE.

MAIN BUILDING, RECEIVING BUILDING, INFIRMARY—LEFT WING OF WHICH IS NOW COMPLETED AND IN USE.

THIRD ANNUAL REPORT

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North Carolina Sanatorium for the Treatment of Tuberculosis

UNDER CONTROL OF STATE BOARD OF HEALTH

SANATORIUM, N. C.

1916



RALEIGH
EDWARDS & BROUGHTON PRINTING CO.
STATE PRINTERS
1916

NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

(Under the control of the State Board of Health)

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MISS R. WITHERS, Assistant Secretary

LETTER OF TRANSMITTAL

DR. W. S. RANKIN, *Secretary,*
State Board of Health,
Raleigh, N. C.

MY DEAR DOCTOR:—I hereby transmit to you, and through you to the State Board of Health and the Governor and General Assembly, a report, being the third annual report of the North Carolina Sanatorium for the Treatment of Tuberculosis for the year 1916.

Very respectfully yours,

L. B. McBRAYER,
Superintendent.

THIRD ANNUAL REPORT
OF THE
NORTH CAROLINA SANATORIUM
FOR THE TREATMENT OF TUBERCULOSIS

SANATORIUM, N. C.

We are pleased to report progress along every line of endeavor.

BUILDING ACTIVITIES

We have constructed the left wing of our Main Building, which is and is to be Receiving Building and Infirmary and Administration Building. This left wing was intended to accommodate 48 patients; we are now housing 64 patients in this building. We have built a power house, installed a 100-horse-power boiler, engine, and dynamo. From this power house we heat all the buildings on the hill, furnish steam to run the ice plant, steam for cooking, and electricity for light and power. We have installed a cold storage and ice plant. We have built a coal chute which delivers the coal in front of the power-house door; have built a cottage for engineer and a two-room house for fireman; a storage warehouse in which to store supplies, close by the railroad, where it is convenient to load and unload freight and express direct into the warehouse, whether local or by the car-load. We have painted, screened, underpinned, and otherwise repaired all the old buildings on the hill, making extensive repairs to dining-room and kitchen. We have also made some temporary repairs to the old dairy barn and built a shed for machinery. In matters of economy, we are running our power plant for about what it costs us to pump our water with gasoline and buy our ice, so that we have our electric lights and steam heat free. The Southern Express Company has recently given us an express office, and we have been notified that our postoffice will be advanced to third class January 1, 1917.

EXTENSION WORK

In the Extension Department we have in two years examined 643 cases for diagnosis, 411 of these during 1916. We have carried on extensively a correspondence course with physicians throughout the State with especial regard to the early diagnosis of tuberculosis. This has been productive of great good. We have endeavored to enforce the law requiring the physicians to report their cases of tuberculosis to us and have sent such cases printed instructions

in regard to the prevention of the spread of the disease to others, and as to the open-air treatment.

We have bought sputum cups in quarter-million lots and are shipping them all over the State to any one wanting them, at actual cost, which is 50 cents per 100. We have distributed 60,302 of these during the last year. We have sent out 12,093 copies of literature. We have had 3,557 cases reported. Of these, 2,545 are alive; the others have died. We have written letters, multi-graph and personal, to the amount of 60,744. We have received 14,605 letters; we have written articles for the press, bulletin, and other magazines, amounting to 80,273 words. We have prepared 37 forms, placards, etc., amounting to 19,241 copies. We have been furnishing capillary tubes of tuberculin for the Von Pirquet diagnostic test to physicians and have sent out 1,625 to these, the only charge being that they should report the result of the test. We have delivered during the last year 35 addresses, to a total audience of 3,995. We have had 58 conferences with local authorities. We have done 2,350 laboratory examinations in the last year and furnished physicians with histories of the first examination of their patients amounting to 133,787 words. We have made a complete detailed sickness survey of the Silk Mill village at Wadesboro, perhaps more complete than has ever been done in the United States, and among other things, advised the employment of a public health nurse, which has been done, and the erection and maintenance of a sanatorium, which is now under consideration.

Public Health Nursing.—After a conference with the Secretary of the State Board of Health, and at his suggestion, we took the matter of Public Health Nursing under the Bureau of Tuberculosis. We had all the public health nurses in the State, about 41 in number, as our guests at the Sanatorium for two days, and the meeting did much to further the cause of public health nursing. We have secured a Director of Public Health Nursing for North Carolina, Miss S. H. Cabanis, who devotes all her time to this particular thing. We were fortunate to secure the coöperation of the Metropolitan Life Insurance Company, which is paying one-half of the salary and traveling expenses of the Director. This company is also coöperating in local nursing activities and has given to us five scholarships in public health nursing in the University of Cincinnati.

Red Cross Seals.—We have conducted the Red Cross Seal Campaign for two years and are actively engaged in the third campaign at this time. The receipts last year amounted to \$8,033.86. We confidently expect the receipts this year to go over \$10,000. Seventy-five per cent of the receipts will be used by the local committees in their own locality, 10 per cent will be sent to the National Association for the Study and Prevention of Tuberculosis, which furnishes the seals and advertising matter, and 15 per cent will go to the State Red Cross Seal Commission. All of it will be used in the fight against tuberculosis in North Carolina.

In connection with the Red Cross Seal Campaign we have each year conducted a campaign for the observance of Tuberculosis Sunday and Tuberculosis Week, sending letters requesting every minister in the State to speak on the subject of tuberculosis and disease prevention on Tuberculosis Sunday, enclosing appropriate literature to use in his remarks.

DONATIONS

We have received the following donations from friends:

Donor and Donation

Concord Anti-Tuberculosis Society, Concord, bookcases.

Ida Hawkins Missionary Society, Wilmington, 75 Bibles.

Mrs. Ella H. Williams, Poplar Branch, N. C., 1 Bible.

Miss Kate M. Herring, Raleigh, N. C., vases.

Mrs. John C. Scarborough, Winton, N. C., \$2 for Bibles.

Maxton Presbyterian Sunday School Class, Maxton, N. C., 19 Bibles.

Miss Anna L. Twelvetrees, Charlotte, N. C., 100 song books.

Mrs. Jennie G. Yates, Louisburg, N. C., books and literature.

Miss H. Brown, Charlotte, N. C., 2 Bibles.

Mr. A. W. McLean, Lumberton, N. C., magazines.

Mrs. D. H. Ray, Fayetteville, N. C., books.

M. P. Philathea Class, Asheboro, N. C., literature.

Miss Cordelia W. Phifer, Charlotte, N. C., 4 Testaments.

Southern Pines Civic Club, Southern Pines, \$50 check (from sale of Red Cross seals).

Miss Bess Stewart, Carthage, N. C., 7 books.

Miss Grace McKinnin, Bennettsville, S. C., \$5 quarterly (for Sunday School literature).

Mrs. Walter H. Neal, Laurinburg, N. C., 7 books.

Thompson Baraca Class, Greensboro, N. C., box of books.

Kings Daughters, Rockingham, N. C., box of magazines.

Mrs. Mary D. Brush, New York City, box of magazines and books.

News Printery, Lenoir, N. C., box of magazines.

Rev. Mr. Gude, Wagram, N. C., books.

Mr. and Mrs. Yates, Aberdeen, N. C., books.

Aberdeen Baptist Church, Aberdeen, N. C., books.

Hon. A. W. McLean, Lumberton, N. C., 2 books.

Miss Maude Upchurch, Raeford, N. C., 2 Victrola records.

Mrs. W. S. Rankin, Raleigh, N. C., 1 Victrola record.

Miss Elizabeth Connolly, Denver, Col., 2 Victrola records.

Mrs. and Mr. Edward Gibson, Laurinburg, N. C., Victrola records.

Miss Ruth Withers, Sanatorium, N. C., 2 Victrola records.

Bluff Presbyterian Sunday School, 1 Bible.

Miss Ruth Andrews, subscription to *Country Gentleman*.

Miss Lillie A. Way, Belhaven, N. C., 1 book.

Hon. A. W. McLean, Lumberton, N. C., 1 bundle magazines.

Rev. F. W. Bradley, Gastonia, N. C., 1 bundle magazines.

Mrs. Jennie Tucker, Wingate, N. C., 1 book.

Miss Lydia Holman, Altapass, N. C., 1 box books.

Century Company, through Miss Jones, Aberdeen, N. C., 10 books.

Mrs. Mary Latham, Plymouth, N. C., 1 box books.

Dorcas Bell Love Chapter, D. A. R., Waynesville, N. C., 1 box books.

Page Memorial Library, Aberdeen, N. C., 2 boxes magazines.

Miss Helen Howland, Charlotte, N. C., 500 flower bulbs.

Civic Club, Aberdeen, N. C., during summer, flowers each week.

Clemmons Civic and Benevolent League, furnished one room, \$75.

PATIENTS SUPPORTED BY CLUBS, LODGES, CHURCHES, AND OTHER
ORGANIZATIONS

The following is a rough estimate of number of patients whose expenses here have been paid by others than themselves and amount. It is not nearly correct, for the reason that the money is often sent direct to the patients, in which case we have no way of knowing anything about it:

<i>Name of Club or Organization</i>	<i>Number Patients</i>	<i>Amount Paid</i>
Woman's Club, Raleigh	6	\$ 452.00
Woman's Club, Greensboro	1	137.00
Pasquotank County	1	234.00
Charity Organization, Goldsboro	2	285.00
Presbyterian Church, Winston-Salem	1	85.00
Civic League and First Baptist Church, Wadesboro.....	1	152.00
Cabarrus County	1	61.00
St. Pauls Presbyterian Church.....	1	120.00
Carteret County	1	133.00
Associated Charities, Charlotte	1	60.00
Junior Order, Burlington	1	51.00
Baptist Sunday School, Raleigh.....	1	60.00
Forsyth County	2	150.00
Jefferson Standard Life Insurance Company.....	2	181.00
Buncombe County	2	257.34
Total.....	24	\$2,418.34

INCIPIENT CASES

By referring to our medical report you will note that every incipient case that we have treated is alive and at work, and our records show that their earning capacity is as great as it ever was. We make it a rule every year, during the month of November, to write a letter to every patient that we have treated, and in this way we have obtained the above encouraging information. When contrasted with the results obtained in the far advanced cases, it impresses us with the importance of early diagnosis and early treatment in tuberculosis. We are pleased to note that we have admitted as many incipient cases in one month during 1916 as we did during the whole of the year 1915, which is very encouraging, and which we attribute largely to our extension work.

DEMAND FOR ADMITTANCE

The demands for admittance continue to be very insistent. And it is sincerely hoped that provision will be made for the completion of our Main Building and other physical equipment which will increase our capacity to 200, and by changing them every four months, which is about the average stay, will enable us to care for 600 patients per year. There are many activities that cannot be put into a report, but we trust that this will serve to give general insight into our work.

MEDICAL REPORT

DEFINITIONS OF TERMS EMPLOYED

ON ADMISSION

These definitions indicate the furthest extent of disease and the greatest severity of symptoms that a patient can present and still belong to the stage defined. All patients beyond the incipient stage fall under the moderately advanced stage unless the physical signs and symptoms exceed those of the moderately advanced stage, when they should be classified as far advanced.

Incipient.

Slight or no constitutional symptoms (including, particularly, gastric or intestinal disturbance or rapid loss of weight). Slight or no elevation of temperature or acceleration of pulse at any time during the twenty-four hours.

Expectoration usually small in amount or absent. Tubercle bacilli may be present or absent.

Slight infiltration limited to the apex of one or both lungs or a small part of one lobe.

No tuberculous complications.

Moderately Advanced.

No marked impairment of function, either local or constitutional.

Localized consolidation moderate in extent with little or no evidence of cavity formation; or infiltration more extensive than under incipient. No serious complications.

Far Advanced.

Marked impairment of function, local and constitutional.

Marked consolidation of an entire lobe.

Or disseminated areas of beginning cavity formation.

Or serious complications.

Miliary Tuberculosis.

ON DISCHARGE

Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of six months; the physical signs to be those of a healed lesion.

Apparently Arrested.

All constitutional symptoms and expectoration with bacilli absent for a period of three months; the physical signs to be those of a healed lesion.

Quiescent.

Absence of all constitutional symptoms, expectoration and bacilli may or may not be present; physical signs stationary or retrogressive. The foregoing conditions to have existed for at least two months.

Improved.

Constitutional symptoms lessened or entirely absent; physical signs improved or unchanged; cough and expectoration with bacilli usually present.

Unimproved.

All essential symptoms and signs unabated or increased.

ULTIMATE RESULTS

Arrested.

General health and working capacity retained for six months and over. No active symptoms. Bacilli may be present.

Improved.

All cases not in above classification, but with inactive disease.

TERMS USED IN DEFINITION OF "INCIPIENT"

1. *Slight Constitutional Disturbance.*

Slight loss of appetite, of strength, of weight; lassitude; possibly slight acceleration of pulse or possibly slight elevation of temperature. The impairment of health may be so slight that the patient does not look or feel sick in the ordinary sense of the word.

2. *Slight Elevation of Temperature.*

Maximum temperature after rest for one hour, never goes 99.5 to 100 degrees F. by mouth (or 100.5 per rectum).

3. *Slight Acceleration of Pulse.*

Maximum pulse rate not over 90 after rest for one hour, sitting or lying, except when due to causes other than tuberculosis.

4. *Absence of Tubercle Bacilli.*

Each monthly examination (if the sputum be negative), to consist of a careful microscopic examination, with a mechanical stage, of two smears, devoting at least three minutes to each smear, made from selected particles (at least six from different parts) of the sputum on each of three successive days. The morning sputum should always be obtained, or, better, the minute bits that some arrested patients raise at very infrequent intervals. It is not yet deemed wise to insist on digestion and centrifugalization, or on inoculation of guinea-pigs.

5. *Infiltration.*

Physical signs of slight prominence of the clavicle, lessened movement of chest, narrowing of apical resonance with lessened movement of base of lung, slight or no change in resonance, distant or loud and harsh breathing, with or without some change in the rhythm (*i. e.*, prolonged expiration); vocal resonance possibly slightly increased; or fine or moderately coarse râles present or absent. If sputum contains tubercle bacilli, any one of these.

6. Apex.

That portion of the lung situated above the clavicle and the third vertebral spine.

7. Small Part of One Lobe.

An area of one or two intercostal spaces, or an area not exceeding 60 to 80 sq. cm. in extent, according to the size of the patient.

TERMS USED IN DEFINITION OF "MODERATELY ADVANCED"**8. Marked Impairment of Function, Either Local or Constitutional.**

Local: Marked dyspnea on exertion, limiting seriously the patient's activity.

Constitutional: Marked weakness, anorexia, tachycardia.

9. Moderate Extent of Localized Consolidation.

An area of one-half lobe or less, but may involve both apices; marked dullness, bronchial or decidedly broncho-vesicular breathing; markedly increased vocal resonance; râles usually present. These signs are to be sharply limited as to area instead of gradually shading into normal physical signs.

10. Evidences of Destruction of Tissue.

Presence of tubercle bacilli or elastic fibers in the sputum or the presence of the physical signs of a cavity. There are no absolutely certain physical signs of cavity, but a combination of any four of the following signs is to be taken as indicative of a cavity: (1) cracked-pot note; (2) amphoric breathing; (3) intense whispering pectoriloquy; (4) a veiled puff or post-tussive suction; (5) bubbling or resonant râles. "Physical signs of softening" do not admit of any definition apart from that of cavity formation, and the terms should not be used.

11. Disseminated Fibroid Deposits.

More or less localized areas of fibrous tissue, producing on physical examination, some change or dullness in the percussion note, more or less increase of vocal resonance, harsh, suppressed or broncho-vesicular breathing, râles sibilant or sonorous usually, but at times fine and moderately coarse.

12. Serious Complications.

These should be limited to tuberculous complications, such as meningitis, pharyngitis, laryngitis (except slight thickening in the posterior interarytenoid space, and superficial ulceration of a vocal chord), enteritis, peritonitis, nephritis, cystitis, orchitis, adenitis (unless very slight), etc.

STATISTICAL

Number patients to be reported on	267
Number not tuberculous	6
Number not classified	1
Number patients in sanatorium December 1, 1916	120
Total number patients treated during year	394

TABLE No. 1—33 PATIENTS WHO STAYED LESS THAN 30 DAYS.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Inciipient	11			11		
Moderately advanced	8			7	1	
Far advanced	13			9	3	1
Acute tuberculosis	1				1	
Totals	33			27	5	1

Average Stay, 16.96 Days.

Longest stay, 29 Days.

Shortest Stay, 4 Days.

Number Gained Weight, 16.	Number Lost Weight, 7.
Average gain	4.39 Lbs.
Largest gain	11 Lbs.
Smallest gain	.5 Lb.
Stationary	7
Average loss	2.89 Lbs.
Largest loss	8 Lbs.
Smallest loss	1 Lb.
Not weighed	3

TABLE No. 2—77 PATIENTS WHO STAYED FROM 30 TO 89 DAYS.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Inciipient	24		9	14	1	
Moderately advanced	26		12	21	3	
Far advanced	17		2	9	5	1
Acute tuberculosis	0					
Totals	77		23	44	9	1

Average Stay, 55.77 Days.

Longest Stay, 89 Days.

Shortest Stay, 30 Days.

Number Gained Weight, 64.	Number Lost Weight, 11.
Average gain	8.67 Lbs.
Largest gain	26.5 Lbs.
Smallest gain	.5 Lb.
Stationary	2
Average loss	4.45 Lbs.
Largest loss	12.5 Lbs.
Smallest loss	.5 Lb.
Not weighed	0

TABLE No. 3—157 PATIENTS WHO STAYED 90 DAYS OR MORE.

Condition on Admission	Condition on Discharge					
	Arrested	Apparently Arrested	Quiescent	Improved	Unimproved	Died
Incipient.....36	9	26	1			
Moderately advanced.....85	21	22	29	8	4	1
Far advanced.....36	1	1	11	9	11	3
Aeute tuberculosis.....0						
Totals 157	31	49	41	17	15	4

Average Stay, 173.48 Days.

Longest Stay, 913 Days.*

Shortest Stay, 90 Days.

Number Gained Weight, 127.	Number Lost Weight, 26.
Average gain.....	15.13 Lbs.
Largest gain.....	38.5 Lbs.
Smallest gain.....	1 Lb.
Stationary.....	4
Average loss.....	6.61 Lbs.
Largest loss.....	.27 Lbs.
Smallest loss.....	1 Lb.
Not weighed.....	0

*Worked to pay expenses.

TABLE No. 4—HISTORY OF HEMORRHAGE.

Negative.....	182
Positive	{ Previous only..... 53
	Previous and during residence..... 26
	During residence only..... 6
Total.....	267

TABLE No. 5—RESULTS OF SPUTUM EXAMINATIONS.

Negative or no Sputum.....	110
On admission.....	110
During residence.....	134
On discharge.....	117

TABLE No. 6—13 PATIENTS WHO TOOK THE TUBERCULIN TEST.

Negative.....	6
Positive.....	7

TABLE No. 7—COMPLICATIONS.

Adenitis.....	2	Liver abscess.....	1
Anal fistula.....	7	Lumbago.....	1
Asthma.....	2	Lung abscess.....	1
Bronchitis.....	19	Mitral insufficiency.....	2
Broncho-pneumonia.....	1	Otitis media.....	1
Carcinoma.....	1	Orchitis.....	2
Diabetes.....	3	Paraplegia.....	1
Empyema.....	2	Pharyngitis.....	1
Enteritis.....	3	Pleurisy with effusion.....	6
Femoral hernia.....	1	Potts disease.....	1
Herpes zoster.....	2	Pregnancy.....	2
Laryngitis.....	21	Scoliosis.....	2
		Uterine polypi.....	1

Sex	Age						Civil Condition		
	10-19	20-29	30-39	40-49	50-59	60-72	Single	Married	Widowed
Male.....	133	11	61	42	12	5	2	66	66
Female.....	134	22	62	37	8	4	1	66	53
Totals.....	267	33	123	79	20	9	3	132	119
									16

TABLE No. 8—NATIONALITY.

American.....	266
Russian.....	1

TABLE No. 9—OCCUPATIONS.

Artist.....	1	Electrician.....	3	Printer.....	1
Auditor.....	1	Farmer.....	25	Pupil nurse.....	5
Baker.....	2	Graduate nurse.....	1	Railroad clerk.....	4
Bank cashier.....	1	Hosiery mill operative.....	2	Railroad inspector.....	1
Barber.....	2	Hotel clerk.....	1	Rural mail carrier.....	1
Blacksmith.....	1	Hotel proprietress.....	2	Sawyer.....	1
Bookkeeper.....	7	Housewife.....	53	Seamstress.....	3
Box factory operative.....	1	Housework at home.....	24	Silk mill operative.....	1
Cabinet maker.....	1	Jeweler.....	1	Steam fitter.....	1
Café waiter.....	1	Machinist.....	3	Stone cutter.....	1
Carpenter.....	4	Manager planing mill.....	1	Student.....	28
Chauffeur.....	3	Medical student.....	1	Superintendent cotton mill.....	1
Cigar maker.....	2	Merchant.....	9	Superintendent furniture fac.....	1
Civil engineer.....	1	Milliner.....	2	Teacher.....	17
Clerk in store.....	10	Minister.....	1	Teamster.....	2
Cotton mill operative.....	13	Office clerk.....	1	Telegraph operator.....	2
Drug clerk.....	1	Painter.....	1	Telephone operator.....	1
Editor.....	1	Physician.....	1	Traveling salesman.....	6
Electrical engineer.....	1	Practical nurse.....	1	Well driller.....	1

TABLE No. 10—TOWNS FROM WHICH 267 PATIENTS CAME.

Ansonville	2	Gibsonville	1	Pittsboro	1
Albemarle	5	High Point	9	Pantego	1
Aulander	1	Henderson	3	Peaehland	1
Asheville	1	Hollis	1	Patterson	1
Apex	2	Hillsboro	2	Pinetown	1
Aberdeen	1	Harrellsville	1	Pelham	1
Asheboro	1	Hope Mills	1	Parkersburg	1
Burlington	7	High Rock	1	Raleigh	14
Boone	1	Hamstead	1	Rocky Mount	5
Belvidere	1	Indian Trail	1	Riehlands	1
Bettie	1	Kenly	1	Rowland	1
Belmont	1	Lumberton	9	Rock Creek	1
Beaufort	1	Liberty	1	Roekingham	3
Burgaw	1	Lasker	1	Red Springs	1
Barber	1	Low Gap	1	Roanoke Rapids	1
Bladenboro	1	Laurinburg	3	Rocky Point	1
Charlotte	3	Louisburg	2	Salisbury	6
Cherryville	1	Lewiston	1	Star	1
Conover	1	Littleton	1	Seaboard	1
Camden	1	Leasburg	1	Spencer	1
Concord	4	Lillington	1	Sophia	1
Clemmons	1	Lincolnton	1	Sanford	1
Carthage	1	Lexington	1	Statesville	4
Canby	1	Lueama	1	Stoneyville	1
Cornelius	1	Maysville	1	Shelby	3
Clayton	1	Mars Hill	2	Shallotte	1
Castalia	1	Marion	2	Spray	1
Cofield	1	Mount Airy	4	Stanley	1
Cameron	1	Maxton	3	Summerfield	2
Carpenter	1	Mount Gilead	2	Southport	2
Duke	3	Magnolia	1	St. Paul's	2
Dunn	3	Manassas	1	Scotland Neck	1
Durham	1	Merry Oaks	2	Smithfield	1
Davidson	1	Mount Holly	1	South Mills	1
Dudley	1	Mayodan	1	Stedman	1
Elm City	1	Millboro	1	Selma	1
Elon College	1	Mooresville	1	Saxapahaw	1
Elizabeth City	1	Murfreesboro	1	Troy	1
East Bend	1	Milton	1	Wilmington	4
Fayetteville	5	Madison	1	Windsor	1
Fairmont	1	Moyeek	1	Washington	3
Fremont	1	Morehead City	1	Wilson	4
Fountain	1	McDonald	1	Whitakers	1
Forest City	1	Murphy	1	Wendell	1
Farmville	1	North Wilkesboro	1	Winston-Salem	4
Fairfield	1	New Bern	2	Wingate	1
Greensboro	9	Norwood	1	Williamston	1
Goldsboro	3	Neuse	1	Wadesboro	2
Graham	1	Oxford	2	Whiehard	1
Gum Neck	1	Parkton	2		

TABLE No. 11—COUNTIES FROM WHICH THE 267 PATIENTS CAME.

Anson.....	4	Catawba.....	1	Jones.....	1	Pasquotank.....	1
Alamance.....	11	Cabarrus.....	4	Lee.....	1	Randolph.....	4
Bertie.....	3	Durham.....	1	Lincoln.....	1	Rowan.....	3
Buncombe.....	1	Davidson.....	2	Moore.....	3	Robeson.....	20
Beaufort.....	5	Duplin.....	1	Mecklenburg.....	5	Rutherford.....	2
Brunswick.....	3	Forsyth.....	5	Montgomery.....	4	Rockingham.....	4
Cleveland.....	3	Franklin.....	2	McDowell.....	2	Richmond.....	3
Camden.....	2	Gaston.....	3	Madison.....	2	Tyrrell.....	1
Chatham.....	3	Guilford.....	9	Martin.....	1	Union.....	2
Caswell.....	3	Granville.....	2	New Hanover.....	4	Vance.....	3
Currituck.....	1	Halifax.....	2	Northampton.....	2	Wake.....	18
Carteret.....	3	Hertford.....	2	Nash.....	1	Wilkes.....	1
Cherokee.....	1	Hyde.....	1	Onslow.....	1	Wayne.....	5
Craven.....	2	Harnett.....	7	Pender.....	3	Wilson.....	2
Caldwell.....	1	Iredell.....	5	Pitt.....	2	Yadkin.....	1
Cumberland.....	6	Johnston.....	4	Perquimans.....	1		

Total of 63 counties. Highest number from any one county, 20, Robeson.

TABLE No. 12—OUTSIDE PATIENTS EXAMINED.

December.....	15	March.....	22	June.....	34	September.....	61
January.....	26	April.....	18	July.....	34	October.....	38
February.....	29	May.....	44	August.....	48	November.....	42
Total.....	—		—		—		411

TABLE No. 13—PRESENT CONDITION (DECEMBER 1, 1916) OF ALL INCIPIENT PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO DECEMBER 1, 1915.

Condition on Discharge		Without Tuberculin		With Tuberculin		Total
		Discharged, 1914	Discharged, 1915	Discharged, 1914	Discharged, 1915	
Arrested 5	Living and working-----	0	4	0	1	5
	Living and not working-----	0	0	0	0	0
	Dead-----	0	0	0	0	0
	Lost-----	0	0	0	0	0
Apparently Arrested 10	Living and working-----	1	6	1	2	10
	Living and not working-----	0	0	0	0	0
	Dead-----	0	0	0	0	0
	Lost-----	0	0	0	0	0
Quiescent 11	Living and working-----	4	7	0	0	11
	Living and not working-----	0	0	0	0	0
	Dead-----	0	0	0	0	0
	Lost-----	0	0	0	0	0
Improved 11	Living and working-----	2	8	0	0	10
	Living and not working-----	0	0	0	0	0
	Dead-----	0	0	0	0	0
	Lost-----	1	0	0	0	1
Unimproved 0	Living and working-----	0	0	0	0	0
	Living and not working-----	0	0	0	0	0
	Dead-----	0	0	0	0	0
	Lost-----	0	0	0	0	0
Total 37	Living and working-----	--	--	--	--	36
	Living and not working-----	--	--	--	--	0
	Dead-----	--	--	--	--	0
	Lost-----	--	--	--	--	1

TABLE No. 14—PRESENT CONDITION (DECEMBER 1, 1916) OF ALL MODERATELY ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO DECEMBER 1, 1915.

Condition on Discharge		Without Tuberculin		With Tuberculin		Total
		Discharged, 1914	Discharged, 1915	Discharged, 1914	Discharged, 1915	
Arrested 6	Living and working-----	0	2	0	2	4
	Living and not working-----	0	1	1	0	2
	Dead-----	0	0	0	0	0
	Lost-----	0	0	0	0	0
Apparently Arrested 13	Living and working-----	6	3	2	0	11
	Living and not working-----	1	1	0	0	2
	Dead-----	0	0	0	0	0
	Lost-----	0	0	0	0	0
Quiescent 42	Living and working-----	7	14	1	4	26
	Living and not working-----	2	3	1	1	7
	Dead-----	6	2	1	0	9
	Lost-----	0	0	0	0	0
Improved 72	Living and working-----	19	11	0	0	30
	Living and not working-----	5	11	0	0	16
	Dead-----	20	4	0	1	25
	Lost-----	1	0	0	0	1
Unimproved 4	Living and working-----	0	0	0	0	0
	Living and not working-----	0	0	0	0	0
	Dead-----	2	2	0	0	4
	Lost-----	0	0	0	0	0
Total 137	Living and working-----	--	--	--	--	71
	Living and not working-----	--	--	--	--	27
	Dead-----	--	--	--	--	38
	Lost-----	--	--	--	--	1

TABLE No. 15—PRESENT CONDITION (DECEMBER 1, 1916) OF ALL FAR ADVANCED PATIENTS DISCHARGED FROM THE SANATORIUM PREVIOUS TO DECEMBER 1, 1915.

Condition on Discharge		Without Tuberculin		With Tuberculin		Total
		Discharged, 1914	Discharged, 1915	Discharged, 1914	Discharged, 1915	
Arrested 0	Living and working-----	0	0	0	0	0
	Living and not working-----	0	0	0	0	0
	Dead-----	0	0	0	0	0
	Lost-----	0	0	0	0	0
Apparently Arrested 2	Living and working-----	0	0	0	0	0
	Living and not working-----	0	1	0	0	1
	Dead-----	1	0	0	0	1
	Lost-----	0	0	0	0	0
Quiescent 12	Living and working-----	0	4	0	1	5
	Living and not working-----	1	4	0	0	5
	Dead-----	0	2	0	0	2
	Lost-----	0	0	0	0	0
Improved 54	Living and working-----	0	3	1	0	4
	Living and not working-----	2	5	1	1	9
	Dead-----	24	16	0	1	41
	Lost-----	0	0	0	0	0
Unimproved 48	Living and working-----	0	0	0	0	0
	Living and not working-----	0	1	0	0	1
	Dead-----	31	14	1	1	47
	Lost-----	0	0	0	0	0
Total 116	Living and working-----	--	--	--	--	9
	Living and not working-----	--	--	--	--	16
	Dead-----	--	--	--	--	91
	Lost-----	--	--	--	--	0

FINANCIAL STATEMENT

DECEMBER 1, 1916

ASSETS

FIXED PROPERTIES

Appropriation account	\$ 65,000.23
Real estate (farms).....	11,283.36
Real estate and Hospital buildings.....	106,808.85
Pump station	1,108.21
Barns and silos	2,232.71
Acetylene light plant	645.17
Power and electric light plant.....	3,569.12
Telephone system	1,075.34
Ice plant	2,239.80

Inventory: \$193,962.79

Dining hall and kitchen furniture and fixtures.....	\$3,642.90
Hospital furniture and fixtures.....	3,913.27
Nurses' Home furniture and fixtures.....	501.45
Superintendent's residence furniture and fixtures.....	646.40
Dairy fixtures	326.73
Farm machinery and tools.....	474.15
Farm live stock	1,710.00
Dairy live stock	2,890.00
Linen and bedding	2,566.60
Hospital supplies	1,866.61
Automobile	250.00
Farm expense (feeds, etc.).....	484.06
Dairy expense (feeds, etc.).....	2,489.60
Provisions	648.58
Coal	85.00
Books—Training School	85.30
Hospital dray	35.00
Hogs	1,783.50
Power, heat, light, refrigeration, and water.....	1,579.98
Library	125.00
Office supplies (business).....	98.35
Office equipment (business).....	430.02
Office supplies (extension).....	212.50
Office equipment (extension).....	1,643.49
Laboratory supplies	183.00
Laboratory equipment	486.83
Stenographers' Home furniture and fixtures.....	145.70
Stereopticon outfit	118.20
Cash on hand	687.74

30,109.96

\$224,072.75

LIABILITIES

Appropriation account	\$ 65,000.23
Net worth	158,961.13
Page Trust Company, overdraft.....	15.00
Bank of Hoke, overdraft.....	96.39
	—————\$224,072.75

CASH REPORT FOR YEAR ENDING DECEMBER 1, 1916

RECEIPTS

State appropriation, 1915, maintenance, balance	\$.23
1916, maintenance	25,000.00
1916, permanent improvements	30,000.00
1916, permanent improvements (note)	5,000.00
1916, permanent improvements (overdraft)	15.00
1916, extension	10,000.00
	—————\$ 70,015.23

Patients—Maintenance Fund:

Cash in Bank of Hoke December 1, 1915.....	\$ 1,579.42
Cash on hand December 1, 1915.....	414.06
	—————\$ 1,993.48

Receipts, 1916

Patients—board and treatment	\$38,631.49
Donated by Dr. McBrayer, Postoffice receipts.....	857.73
Hospital supplies	907.91
Telephone and telegraph	29.93
Laundry	323.16
Stamps80
Automobile	291.74
Fuel, light, and water.....	25.05
Freight and express	13.47
Hides	34.87
Old electric light line.....	345.24
Paint	22.05
Plumbing supplies	11.33
Training School books	2.00
Provisions	204.57
Donation (Clemmons Civic and Betterment League).....	75.00
Rent	1.00
Farm expense	23.82
Dairy expense	54.17
Refund traveling expense	26.30
Office supplies and expense.....	.55
Ice	4.50
Safe	65.00
Dining hall and kitchen furniture and fixtures.....	96.60
Cooks and servants	10.67

Coal	\$ 168.00
Hogs	11.00
<hr/>	
	\$44,231.43
Overdraft Bank of Hoke December 1, 1916.....	
	96.39
<hr/>	
	\$44,327.82
Less cash on hand December 1, 1916.....	687.74
	<hr/>
	\$ 43,640.08
<hr/>	
DISBURSEMENTS	\$113,655.31

Year Ending December 1, 1916

Hospital supplies	\$ 5,167.68
Telephone and telegraph	235.97
Refund patients	576.96
Laundry	2,301.16
Stamps	1,194.49
Auto expense	704.24
Fuel, light, and water	3,594.06
Freight and express.....	1,066.70
Coal	3,401.76
Office supplies	461.96
Provisions	21,757.84
Hospital supplies	1,035.56
Dairy expense	1,624.65
Farm expense	4,344.99
Repair heating system	1,976.99
Repairs and supplies plumbing system	546.44
Repairs old buildings	1,059.55
Repairs pump	158.61
Repairs farm house	56.20
Ice	195.74
Kitchen supplies	7.33
Cooks, etc.	5,266.15
Nurses and attendants	2,272.22
Training School books	29.12
Refrigerator supplies	225.02
Linen and bedding	1,116.40
Crockery and silver	264.53
Expense of grounds	226.33
Hogs	287.66
Machinery and tools	38.22
Safe	65.00
Paint	100.83
Electric wire	55.47
Stationery	24.65
Kitchen equipment	108.68
Telephone maintenance	8.29
Refrigerator repairs	109.86
Clearing new ground	65.69

Salaries	\$ 8,751.04
Traveling expense	1,041.85
Reservoir, No. 2	187.14
Well, No. 3	26.00
Library	8.54
Surveying and platting land.....	122.70
Plumbing supplies and expense.....	186.53
Telephone installation	1,075.34
Farm live stock	1,090.22
Farm tools	187.14
Ice plant	34.30
Hospital dray	5.30
Interest	35.83
Charley Sandy	475.00
Dairy fixtures	7.86
Hospital furniture and fixtures.....	507.18
Dining hall and kitchen furniture and fixtures.....	367.24
Plumbing extension	650.73
Heating contract	8,585.00
New building, miscellaneous	117.25
New building, main contract.....	2,137.00
New building, laying drain.....	21.95
New building, furniture and fixtures.....	1,778.56
New building, hot-water contract	149.60
Extras on heat and power contract.....	986.97
New building, plumbing contract.....	729.95
Dairy live stock	631.57
Coal chute and trestle.....	828.12
Improvements to negro quarters	291.29
Improvements to Club House	244.10
Power house	579.09
Garage	2.80
Improvements old dining-room.....	1,496.92
Electric wiring contract	1,542.98
Paint and painting	574.23
Improvements, men's shack	265.02
Improvements, ladies' shack	7.10
Nurses' home furniture and fixtures.....	17.65
Sewer extension	495.50
Improvements Nurses' Home	13.20
Pump house	238.68
Improvements, Superintendent's residence	19.45
New kitchen equipment	2,157.12
Crematory	36.75
Refrigerating plant	2,205.50
Superintendent's home furniture and fixtures.....	94.05
Concrete reservoir, No. 1	708.69
New floor, old kitchen.....	179.65
Septic tank (Brooks Hall).....	162.04
Extras on depot	6.40
Recliners	125.75

Carara table tops	\$ 270.00
Extras on engineer's and fireman's houses.....	26.58
Engineer's and fireman's houses and depot.....	2,250.00
Improvements, stenographers' home	101.90
Improvements, pump station	14.19
Extras on plumbing contract.....	501.57
Extras on electric wiring contract.....	211.05
Tool shed, farm	98.57
Page Trust Company, note.....	5,000.00
Office furniture and fixtures.....	846.62
Bookcases	87.47
Stereopticon outfit	118.20
Medical books	24.75

	\$113,655.31

STATEMENT OF PERMANENT IMPROVEMENT FUND

RECEIPTS

Appropriation	\$30,000.00
Bills payable	5,000.00
Transferred from Maintenance Fund.....	506.29
Transferred from Extension Fund.....	3,409.68
Overdraft	15.00

	\$38,930.97

DISBURSEMENTS

Farm machinery and tools.....	\$ 39.40
Dairy fixtures	7.86
Hospital furniture and fixtures.....	507.18
Dining hall and kitchen furniture and fixtures.....	367.24
Plumbing extension	650.73
Heating contract	8,585.00
New building, miscellaneous.....	117.25
New building, main contract.....	2,137.00
Main building, laying drain.....	21.95
New building, furniture and fixtures.....	1,778.56
New building, hot-water contract.....	149.60
Extras on heat and power contract.....	986.97
New building, plumbing contract.....	729.95
Dairy live stock.....	631.57
Coal chute and trestle.....	828.12
Improvements, negro quarters.....	291.29
Improvements, club house.....	244.10
Power house	579.09
Garage	2.80
Improvements, old dining-room.....	1,496.92
Electric wiring contract	1,542.98
Paint and painting	574.23
Improvement, men's shack.....	265.02
Improvement, ladies' shack.....	7.10
Nurses' home furniture and fixtures.....	17.65

Sewer extension	\$ 495.50
Improvement, nurses' home.....	13.20
Pump house	238.68
Improvement, Superintendent's residence.....	19.45
New kitchen equipment.....	2,157.12
Crematory	36.75
Refrigerating plant	2,205.50
Farm live stock.....	480.22
Improvement of grounds.....	113.66
Superintendent's home, furniture and fixtures.....	94.05
Reservoir	708.69
Telephones	76.60
Improvement of old buildings, miscellaneous.....	287.12
New floor (old kitchen).....	179.65
Septic tank	162.04
Extras on depot.....	6.40
Recliners	125.75
Carara table tops.....	270.00
Extras on engineer's and firemen's houses.....	26.58
Engineer's and fireman's houses and depot (contract).....	2,250.00
Improvement of stenographers' home.....	101.90
Improvement foreman's residence (farm).....	14.19
Improvement pump station.....	181.53
Extras on plumbing contract.....	501.57
Extras on wiring contract.....	211.05
Extras on telephone contract.....	43.00
Tool shed (farm).....	98.57
Telephone installation	272.64
Page Trust Company (note)	5,000.00
	\$38,930.97

STATEMENT OF MAINTENANCE APPROPRIATION

RECEIPTS

Appropriation, balance, 1915.....	\$.23
Appropriation, 1916	25,000.00

\$25,000.23

DISBURSEMENTS

Plumbing salary	\$ 95.15
Dairy expense	2,434.57
Salaries	5,436.59
Nurses and attendants.....	2,193.25
Service of cooks.....	5,159.61
Farm expense	1,902.29
Interest	35.83
Office supplies and expense.....	13.01
Provisions	3,177.53
Hospital supplies	704.95
Fuel, light, and water	1,163.04
Freight and express.....	178.53

Crockery and silver.....	\$ 27.21
Repairs and supplies (pump house).....	1.60
Telephone and telegraph.....	13.86
Plumbing supplies and repairs.....	91.03
Repairs, old buildings	115.19
Drugs and medicines.....	125.79
Laundry	194.97
Refrigeration	142.62
Coal	366.39
Auto expense	381.25
Stationery	41.17
Linen and bedding	23.51
Charley Sandy	475.00
	—————
	\$24,493.94
Transferred to Permanent Improvement.....	506.29
	—————
	\$25,000.23

STATEMENT OF MAINTENANCE—PATIENTS FUND

RECEIPTS

Bank of Hoke, deposits.....	\$43,543.69
Overdraft, Bank of Hoke.....	96.39
	—————
	\$43,640.08

DISBURSEMENTS

Telephone and telegraph.....	\$ 222.11
Refund to patients.....	576.97
Hospital supplies	5,167.68
Laundry	2,106.19
Stamps	298.58
Auto expense	322.99
Fuel, light, and water.....	2,431.02
Freight and express.....	865.97
Coal	3,035.97
Office supplies	144.49
Provisions	18,580.31
Drugs and medicines.....	154.82
Dairy expense	1,624.65
Farm expense	1,910.42
Repairs heating system.....	74.70
Repairs and supplies plumping system.....	546.44
Repairs old buildings.....	657.24
Repairs pump	157.01
Repairs farm house.....	56.20
Ice	195.74
Kitchen supplies	7.33
Service cooks, etc.....	106.54
Nurses and attendants.....	78.97
Training School books.....	29.12
Refrigeration (supplies)	82.40

Linen and bedding	\$ 1,092.89
Crockery and silver.....	237.32
Expense (grounds)	16.08
Hogs	287.66
Machinists' tools	38.22
Safe	65.00
Paint	100.83
Electric wire	55.47
Stationery	24.65
Improvement (grounds)	96.59
Kitchen equipment	108.68
Telephone maintenance	8.29
Refrigeration (repairs)	109.86
Clearing new ground	65.69
Salaries	74.17
S. H. Cabanis (traveling expenses).....	2.25
Concrete reservoir, No. 2.....	187.14
Well, No. 3.....	26.00
Library	6.54
Surveying and platting lands.....	122.70
Plumbing supplies35
Telephone installation	683.10
Farm live stock.....	610.00
Farm tools	147.74
Charles R. Whitaker (ice plant).....	34.30
Hospital dray	5.30
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	\$43,640.08

STATEMENT OF EXTENSION FUND

RECEIPTS

Appropriation	\$10,000.00
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DISBURSEMENTS

Office furniture and fixtures.....	\$ 846.62
Stamps	895.91
Salaries	3,240.28
Traveling expense	660.68
Bookcases	87.47
Freight and express.....	22.20
Office supplies and expense.....	263.29
Expense speaker nurses' meeting.....	80.49
Tuberculin	25.00
Lantern slides	83.20
Stereopticon lantern	35.00
Medical books	24.75
Library books	2.00
Miss Florence Housevold, expenses Lexington, Ky., to High Point..	27.92
Expenses attending State Medical Society.....	143.81
Expenses Miss Kimble to N. C. S. and return.....	45.70
Traveling expenses, Miss Kimble to N. C. S. and return.....	45.70

Traveling expenses, Miss Cabanis from St. Augustine.....	\$ 33.10
Traveling expenses, Miss Cabanis, on duty.....	27.40
Traveling expenses, Dr. D. C. Absher to Sanatorium.....	5.80
Supplies	25.00
Expense of William M. Jones.....	5.50
Expense of Dr. F. M. Register.....	9.20

	\$ 6,590.32
Transferred to Permanent Improvement Fund.....	3,409.68

	\$10,000.00

TRIAL BALANCE DECEMBER 1, 1916, AFTER BOOKS WERE CLOSED

Surplus	\$158,961.13
Real estate (farms).....	\$ 11,283.36
Real estate (hospital and buildings).....	106,808.85
Pump station	1,108.21
Barns and silos.....	2,232.71
Acetylene light plant.....	645.17
Dining hall and kitchen furniture and fixtures.....	3,642.90
Hospital furniture and fixtures.....	3,913.27
Nurses' home furniture and fixtures.....	501.45
Superintendent's residence furniture and fixtures.....	646.40
Dairy fixtures	326.73
Farm machinery and tools.....	474.15
Farm live stock.....	1,710.00
Dairy live stock.....	2,890.00
Linen and bedding.....	2,566.60
Hospital supplies	1,866.61
Automobile	250.00
Farm expense	484.06
Dairy expense	2,489.60
Provisions	648.58
Coal	85.00
Books (Training School).....	85.30
Hospital dray	35.00
Permanent Improvement Fund.....	15.00
Bank of Hoke.....	96.39
Hogs	1,783.50
Power, heat, light, water, and refrigeration.....	1,579.98
Telephone system	1,075.34
Ice plant	2,239.80
Stereopticon outfit	118.20
Library	125.00
Power, heat, and electric plant.....	3,569.12
Office supplies and expenses (business).....	98.35
Office supplies and expenses (extension).....	212.50
Laboratory and medical equipment.....	486.83
Laboratory and medical supplies.....	183.00

Stenographers' home furniture and fixtures.....	\$ 145.70
Office equipment (business)	430.02
Office equipment (extension)	1,643.49
Cash	687.74

	\$159,072.52

OUR NEEDS

Finishing main building.....	\$ 60,000.00
Furnishing main building.....	10,000.00
Dairy barn	7,500.00
Dairy cows	2,500.00
Superintendent's residence	13,500.00
Houses for employees	7,500.00
Water tower	6,000.00
Sewerage system and disposal plant.....	8,000.00
Water power (218 acres).....	3,270.00
Development of water power.....	18,730.00
Improvement to grounds.....	1,500.00
Repairs to buildings.....	2,500.00
Laundry machinery	6,000.00
Power house and laundry building.....	3,500.00
New boiler	2,500.00
New well	1,500.00
New pumps	1,000.00
Steam sterilizer for clothing.....	1,500.00
Steam sterilizer for milk bottling plant.....	1,500.00

Total	\$158,400.00
Maintenance, 1917	\$ 30,000.00
Maintenance, 1918	40,000.00
Extension, per annum	15,000.00

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